

ABSTRACT:

A quantum communication system comprising:

an emitter configured to emit a plurality of photon pulses in groups of photon pulses, each group of photon pulses emitted over a group time period, each photon pulse having a probability of containing at most one photon;

a detector comprising gating means configured to switch the detector between an on state and an off state;

wherein the detector is in an on state for at least the duration of two photon pulses during said group time period.

Figure 3a and 3b